



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**D3637-041**  
**Job Sheet 179717**



Part No: D3637-041

Job Qty: 6 ea

Part Name: Bracket Assembly



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 6/21/18

Job Tracking No:

Due Date: 7/18/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV B IPP Rev:A New Issue 07-07-20 JLM Verified By:EC IPP Rev:B change to REV.B as per dwg 08-02-11 DD verified by:ec

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off               |
|-------|--------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|------------------------|
|       |                    |       |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |                        |
| 90    | Start up Operation | 6 Ea  | 7/18/18    | 7/18/18  | 0.00      | 0.00    | Start Up Waterjet     |           | SC 18/07/18            |
| 100   | Waterjet           | 6 pcs | 7/18/18    | 7/18/18  | 0.00      | 0.41    | Waterjet1             |           | SC 18/07/18            |
| 110   | QC                 | 6 pcs | 7/18/18    | 7/18/18  | 0.00      | 0.00    | QC2 Waterjet-2        |           | SC 18/07/18            |
| 120   | QC                 | 6 pcs | 7/18/18    | 7/18/18  | 0.00      | 0.00    | QC8-3                 |           | 38                     |
| 130   | Brake NC           | 6 pcs | 7/18/18    | 7/18/18  | 0.00      | 0.41    | Brake NC 1            |           | 9-89                   |
| 140   | Small Fab          | 6 pcs | 7/18/18    | 7/18/18  | 0.00      | 1.27    | Small Fab-4           |           | DAS                    |
| 150   | QC                 | 6 pcs | 7/18/18    | 7/18/18  | 0.00      | 0.00    | QC5                   |           | AUG 17 2018 38         |
| 160   | Packaging          | 6 pcs | 7/18/18    | 7/18/18  | 0.00      | 0.00    | Packaging3-1          |           | AUG 20 2018 9-89       |
| 170   | QC21-SA            | 6 Ea  | 7/18/18    | 7/18/18  | 0.00      | 0.00    | QC21                  |           | 21<br>9-89 AUG 20 2018 |

### Job BOM

| Part / Item  | Component Name   | Quantity          | Operation             | Container |
|--------------|------------------|-------------------|-----------------------|-----------|
| MS20426AD3-3 | Rivet            | 12 Ea (2 ea)      | 90-Start up Operation |           |
| M304S14GA    | 304SS sheet .080 | .5400 sf (.09 ea) | 140-Small Fab         | 5018535   |
| MS21059L4    | Nutplate         | 6 Ea (1 ea)       | 140-Small Fab         | 5093786   |

### Job Allocations

| Operation             | Component Part | Required | Inventory | Allocated |
|-----------------------|----------------|----------|-----------|-----------|
| 90-Start up Operation | MS20426AD3-3   | 12       | 4,153     | 0         |
| 140-Small Fab         | M304S14GA      | 1        | 126       | 0         |
|                       | MS21059L4      | 6        | 84        | 0         |

### Part Specifications

Specifications could not be found.

Plex 6/21/18 7:25 AM Dart.lajeunesse.marie



QA Closed: Date:



## WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only

|                                  |                          |                       |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                 |                          |                       |                          |                  |                          |                |
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| Work Order: _____                |                          | DISPOSITION           |                          | AGAINST DEPARTMENT/PROCESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                 |                          |                       |                          |                  |                          |                |
| Part No. _____                   |                          | Rework                | <input type="checkbox"/> | Skid-tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> | Cross tube                      | <input type="checkbox"/> | Water Jet             | <input type="checkbox"/> | Engineering      | <input type="checkbox"/> |                |
| NCR No. _____                    |                          | Scrap                 | <input type="checkbox"/> | Machining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> | Small Fab                       | <input type="checkbox"/> | Prod. Eng. Coord.     | <input type="checkbox"/> | Quality          | <input type="checkbox"/> |                |
|                                  |                          | Use-as-is             | <input type="checkbox"/> | Thermoforming                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> | Finishing                       | <input type="checkbox"/> | Rec/Store/Packaging   | <input type="checkbox"/> | Other            | <input type="checkbox"/> |                |
|                                  |                          | Suspected Unapproved  | <input type="checkbox"/> | Large Fab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> | Composite                       | <input type="checkbox"/> | Supplier              | <input type="checkbox"/> |                  | <input type="checkbox"/> |                |
| Date :                           |                          | Step #:               |                          | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                 |                          | MRB (QSI042) Approval |                          |                  |                          |                |
| Description Work Order Deviation |                          |                       |                          | Discrepancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                 |                          |                       |                          |                  |                          |                |
|                                  |                          |                       |                          | <div style="display: flex; justify-content: space-between;"> <div> <p>Completed By _____</p> <p>_____/ Supervisor</p> <p>_____/ Approval</p> </div> <div> <p>Part: D3637 - 041</p> <p>Job No: 179717</p> <p>Serial No/Batch: S091762</p> <p>Revision: _____</p> <p>Inspector: _____</p> <p>Exp Date: _____</p> <p>Instructions: _____</p> <p>Date: 07/13/18</p> </div> <div> <p>Container No: S091762</p>  <p><b>DART</b><br/>AEROSPACE</p> <p>Dart Aerospace Ltd.<br/>1270 Aberdeen Street<br/>Hawkebury, ON K0A 1K7<br/>CANADA<br/>TEL: 1 613 632-5200<br/>Email: sales@dartaero.com<br/>www.dartaerospace.com</p> </div> </div> |                          |                                 |                          |                       |                          |                  |                          |                |
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| Root Cause                       |                          |                       |                          | PART FACTORY WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                 |                          |                       |                          |                  |                          |                |
| Environment                      | <input type="checkbox"/> | No Re-verification    | <input type="checkbox"/> | Pressure/Fo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> |                                 | <input type="checkbox"/> |                       | <input type="checkbox"/> |                  | <input type="checkbox"/> | ned Wrong      |
| Design                           | <input type="checkbox"/> | Operator              | <input type="checkbox"/> | Bending                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> |                                 | <input type="checkbox"/> |                       | <input type="checkbox"/> |                  | <input type="checkbox"/> | e Dimensions   |
| Doc/Data                         | <input type="checkbox"/> | Offset/Setup          | <input type="checkbox"/> | Centre Not C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> |                                 | <input type="checkbox"/> |                       | <input type="checkbox"/> |                  | <input type="checkbox"/> | nder tolerance |
| Equip/Tooling                    | <input type="checkbox"/> | Supplier              | <input type="checkbox"/> | Cracks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> |                                 | <input type="checkbox"/> |                       | <input type="checkbox"/> |                  | <input type="checkbox"/> | orrect         |
| Handling/Pre                     | <input type="checkbox"/> | Training              | <input type="checkbox"/> | Crimp/Kink/I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> |                                 | <input type="checkbox"/> |                       | <input type="checkbox"/> |                  | <input type="checkbox"/> | it/Missing     |
| Material                         | <input type="checkbox"/> | Use for Testing       | <input type="checkbox"/> | Cuffs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> |                                 | <input type="checkbox"/> |                       | <input type="checkbox"/> |                  | <input type="checkbox"/> | removed        |
| Internal Transport               | <input type="checkbox"/> | Poor Information      | <input type="checkbox"/> | Crushing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> | Countersink                     | <input type="checkbox"/> | Off-set               | <input type="checkbox"/> | Drawing          | <input type="checkbox"/> |                |
| Tribal Knowledge                 | <input type="checkbox"/> | Rushing               | <input type="checkbox"/> | Heat Treat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> | Cut Too Short                   | <input type="checkbox"/> | Mislabeled            | <input type="checkbox"/> | Finish           | <input type="checkbox"/> |                |
| LOA                              | <input type="checkbox"/> | Product Improvement   | <input type="checkbox"/> | Wave/Twist in Tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> | Instructions Incomplete/Unclear | <input type="checkbox"/> | Fit/Function          | <input type="checkbox"/> | Misread          | <input type="checkbox"/> |                |
| Substation                       | <input type="checkbox"/> | Process Improvement   | <input type="checkbox"/> | Marks/Chatter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> | Drill Holes                     | <input type="checkbox"/> | Misaligned/off center | <input type="checkbox"/> | Turning Sequence | <input type="checkbox"/> |                |
| Past Expiry Date                 | <input type="checkbox"/> | Manufacturing Process | <input type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                 |                          |                       |                          |                  |                          |                |
| Misidentified                    | <input type="checkbox"/> | Past Due              | <input type="checkbox"/> | OTHER :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                 |                          |                       |                          |                  |                          |                |





DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                      | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube <input type="checkbox"/></td> <td style="border: none;">Cross tube <input type="checkbox"/></td> <td style="border: none;">Water Jet <input type="checkbox"/></td> <td style="border: none;">Engineering <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Machining <input type="checkbox"/></td> <td style="border: none;">Small Fab <input type="checkbox"/></td> <td style="border: none;">Prod. 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Coord. <input type="checkbox"/></td> <td style="border: none;">Quality <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Thermoforming <input type="checkbox"/></td> <td style="border: none;">Finishing <input type="checkbox"/></td> <td style="border: none;">Rec/Store/Packaging <input type="checkbox"/></td> <td style="border: none;">Other <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Large Fab <input type="checkbox"/></td> <td style="border: none;">Composite <input type="checkbox"/></td> <td style="border: none;">Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cross tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                         | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Engineering <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                   | Machining <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                | Small Fab <input type="checkbox"/> | Prod. 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| Machining <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Small Fab <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Prod. 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| Thermoforming <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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